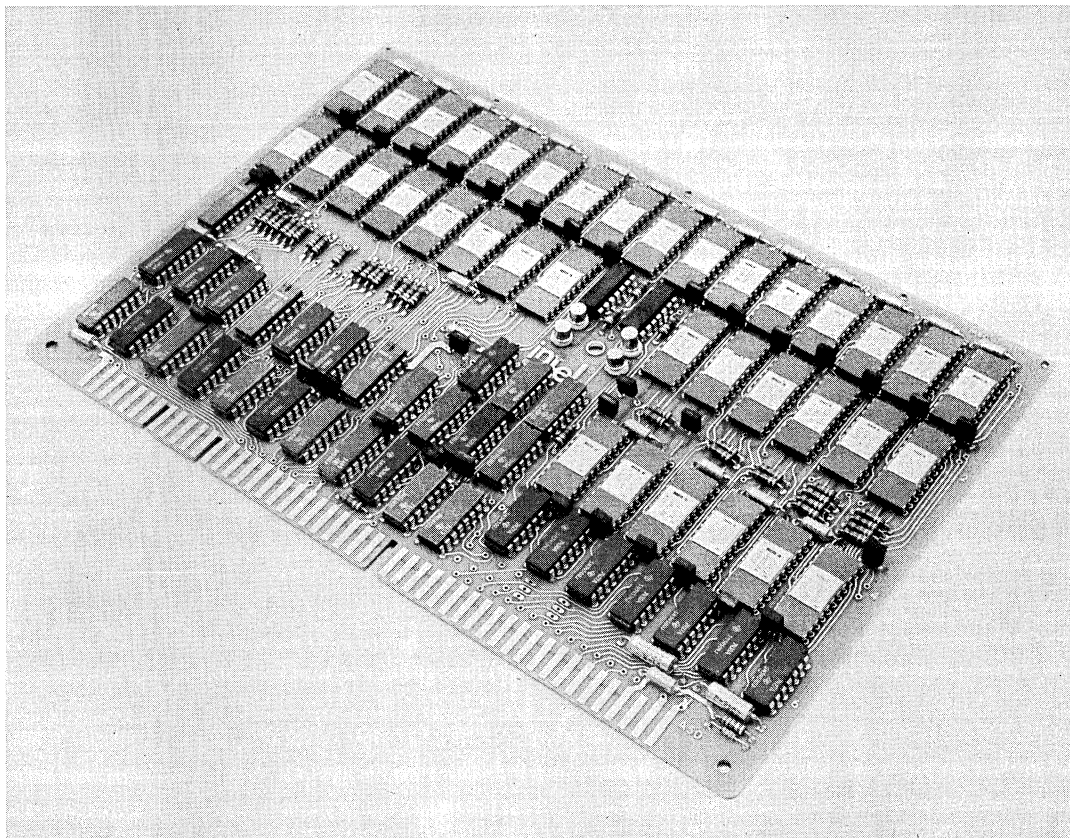




in-41E MEMORY SYSTEM (Euroboard Format)



in-41E SERIES RAM MEMORY FEATURES:

- Low Cost Memory
- High Reliability
- Module Expandability
- Module Interchangeability
- Automatic Refresh
- Fast Cycle Time
- Low Power Requirements
- Compact Size
- Field Expandable
- Master/Slave Operation
- Complete Control on each Board
- Address and Data Registers

The in-41E RAM Memory System is perhaps the highest density memory now available on Euroboards. The interchangeable memory boards (MU) allow expansion in increments of 8K x 18 or 16K x 9 with no adjustments. A single control board (CU) handles up to 64K x 18 or 128K x 9 comprising our lowest cost-per-bit package available. This memory system features a fast access and cycle time, high density and the use of a 4K RAM as the storage device.

DYNAMIC RAM MEMORY SYSTEMS in-41E

SYSTEM in-41E SPECIFICATIONS

Dimensions:

Memory Board:	160 mm	High
(8K x 18)	233.4 mm	Deep
	12.7 mm	Wide

To expand to 64K x 18, add 12.7 mm per memory card.

Capacity:

8,192 words expandable in cards to 65, 536 x 18 storage capacity or 128K x 9.

Word Length:

Up to 18 bits in a single memory card. Longer word length can be accommodated by combining memory cards.

Cycle Time:

in-41E	550 Nanoseconds
in-41E-1	650 Nanoseconds

Access Time:

in-41E	350 Nanoseconds
in-41E-1	475 Nanoseconds

Operational Modes:

Read (NDRO)
Write

Interface Characteristics:

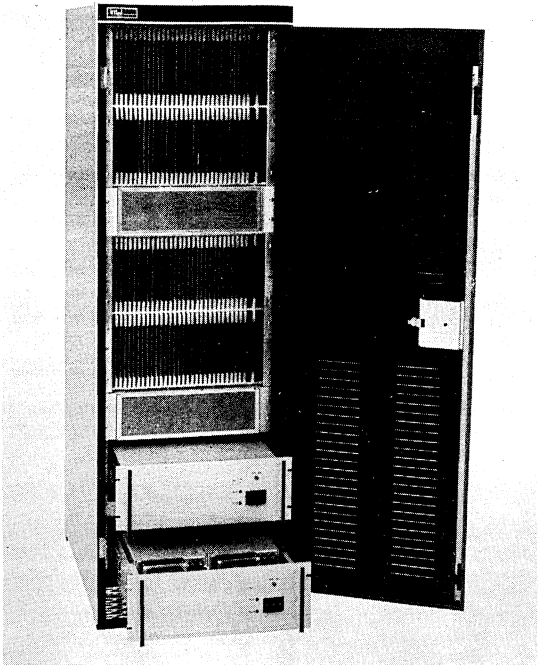
TTL Compatible
Standard Input Lines:
 Cycle Initiate
 Byte Control
 Read/Write
Standard Output Lines:
 Data Available
 Memory Busy

Address Input:

12 - 17 lines, binary, single ended.

Environment:

Temperature: 0°C to +50°C operating ambient
 -40°C to +125°C non-operating
Relative Humidity: Up to 90% with no condensation
Altitude: 0 to 10,000 feet operating
 Up to 15,000 feet non-operating



D.C. Power Requirements:

MU-41E:	Selected	
Voltage	Current (Typical)	Regulation
+12V	1.4 Amps	±5%
+5V	1.0 Amps	±5%
-5V	50 Milliamps	±5%

MU-41E:	Unselected	
Voltage	Current (Typical)	Regulation
+12V	0.142 Amps	±5%
+5V	1.0 Amps	±5%
-5V	50 Milliamps	±5%

CU-41E:		
Voltage	Current (Typical)	Regulation
+5V	1.3 Amps	±5%

Features:

Module Select	Basic system available as 8K x 18 or 16K x 9.
Data Register (optional)	
Address Register	
Fast Cycle Time	
Byte Control (2 zones max)	

Special Option:

Intel also offers the in-41E mounted in a card chassis either as a single or multiple card system.

MEMORY
SYSTEMS